CLAIMS

1. A method of purifying a metal salt which comprises bringing the metal salt formed by melting an alkali metal salt, an alkaline earth metal salt or a mixture thereof into contact with one or more of titanium, titanium alloy, zirconium and zirconium alloy, thereby adsorbing impurities in the metal salt.

2. A purification method of a metal salt according to claim 1, wherein the metal salt is melted in a vessel made of titanium or titanium alloy, or a vessel lined with titanium or titanium alloy.

3. A purification method of a metal salt according to claim 1 or 2, wherein foil-like titanium is used as an adsorbent.

4. A method of deoxidizing a titanium material comprising dissolving metallic calcium to a molten product of a metal salt purified by the purification method according to claim 1 or 2 and bringing the same into contact with the titanium material.

5. A deoxidization method of a titanium material according to claim 4, wherein calcium chloride is used as the molten salt.

6. A deoxidization method of a titanium material according to claim 4 or 5, wherein the exactly same vessel used for the purification of the metal salt is used.

7. A method of producing a titanium material which comprises conducting molten salt electrolysis by using a molten product of a metal salt purified by the purification method according to claim 1 or 2 for electrolytic bath.

8. A production method of a titanium material according to claim 7, wherein an LiCl-KCl system mixed salt is used under electrolysis as the molten salt.

9. A production method of a titanium material according to claim 7 or 8, wherein the exactly same vessel used for the purification of metal salt is used.